

Field Control Layer Device

BACnet Advanced Application Controller

DACU842BT

【Description】

DACU842BT is a BTL listed standalone BACnet B-AAC class programmable controller with an TFT LCD touch control panel. It is designed for monitor and control building electromechanical device, large AHU, clean room, fume hood, large-scale end device control. It uses 32-bit microprocessor core, communication speed up to 76,800 bps, transmission distance up to 1,200 meters. DACU842BT has 8 Universal Inputs (UI), 4 Binary Outputs (BO) and 2 Analog Outputs (AO). In addition, it has an EIMnet port can connect up to 12 EIM series of expansion modules, allowing you to expand in response to the needs of various points. DACU842BT conforms to international BACnet MS/TP communication protocol and fully compatible with any BACnet system. It is absolutely the best product for your building.



【Features】

- BTL listed BACnet Advanced Application Controller (B-AAC) class device.
- 2.8" screen, 65,536 colors, touch screen TFT LCD, 320*240 pixel, set up and edit with AIRTEK BACsoft software.
- MS/TP(Master-Slave/Token-Passing) communication interface, with Peer to Peer function can read and write other DDC's object, may issue a read (DS-RP-A/DS-RPM-A) and write (DS-WP-A) BACnet object properties function.
- EIMnet communication interface can connect up to 12 EIM I/O expansion modules, maximum limit less than 100 points.
- Universal Input (UI) has 12-bit resolution, dry contact, pulse, 3K or 10KΩ NTC thermistor, 0~10VDC, 4~20mA input signal.
- Binary Output (BO) has 5,000Vrms optical coupling isolates, 8A/250VAC/SPST relay (Relay), Status Indicator design. Each point has a manual on / off / auto three sections selector switch.
- Analog Output (AO) has 12-bit resolution, can be DIP switch and software selected 0~10VDC output signal, each point has a manual override/auto output control switch.
- The user's control program can be downloaded, online edited and saved in flash memory of the controller.
- Carry out calculations such as proportional, integral, differential, floating, logic, arithmetic and etc.
- 150 Binary Value (BV) and 150 Analog Value (AV) points, the analog value adopts high precision floating-point calculation.
- Priority control array by 16 for all BO, AO and BV.
- Provide power failure backup functions for all AI/BO/AO/BV/AV values keep in FRAM for at least 10 years.
- Real-time clock, 2 Calendars, 12 Schedules, 4 Notification Class, 20 Event Enrollments standard BACnet object. Schedules and event enrollments support external object access function.
- TFT Touch screen is provided with 10 password levels. User can setup up to 20 passwords.

【Specification】

Model	UI	BO	AO	EIM Q'TY	Calendars	Schedules	Notification	Event	BV Points	AV Points
DACU842BT	8	4	2	12	2	12	4	20	150	150

Power Supply : 24VAC/VDC, 15VA.

LCD Display : 2.8", 65,536 color, touch TFT LCD320*240 pixels, 32-bit MCU for panel,8M memory for fonts and user data.

Microprocessor : 32-bit high performance MCU, 64K RAM, 32K FRAM and 384K Flash memory.

Universal Input (UI) : 12-bit resolution, accept dry contact, pulse, 3K or 10KΩ NTC thermistor, 0~10VDC, 4~20mA signal. Pulse signal to accept the largest 100HZ open collector or dry contact input.

Binary Output (BO) : 7A/250VAC non-voltage SPST contacts, attached manual on / off / auto three sections select switch.

Analog Output (AO) : 12-bit resolution, 0~10VDC output, attached a manual override/auto output control switch.

Auxiliary Power : Provide 24VDC/160mA power supply for external transmitter.

MS/TP Port : MS/TP MODBUS RS-485, communication speed 9,600/ 19,200/ 38,400/ 76,800 bps, auto select, max. length 1,200 meters, having 2500Vrms optical coupling isolator and TVS ARRAY surge protection.

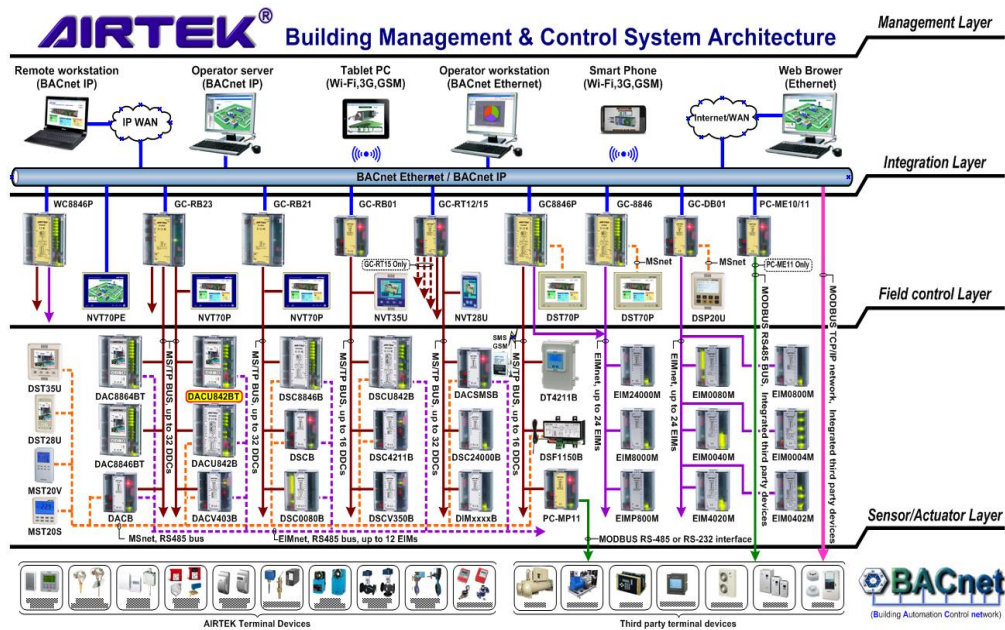
EIM Port : MODBUS RTU RS-485, communication speed 38,400 bps, max. length 1,200 meters, up to 12 EIMs.

Clock : Real-time Clock, gold capacitor power failure backup, provide normal operation of the clock after power failure.

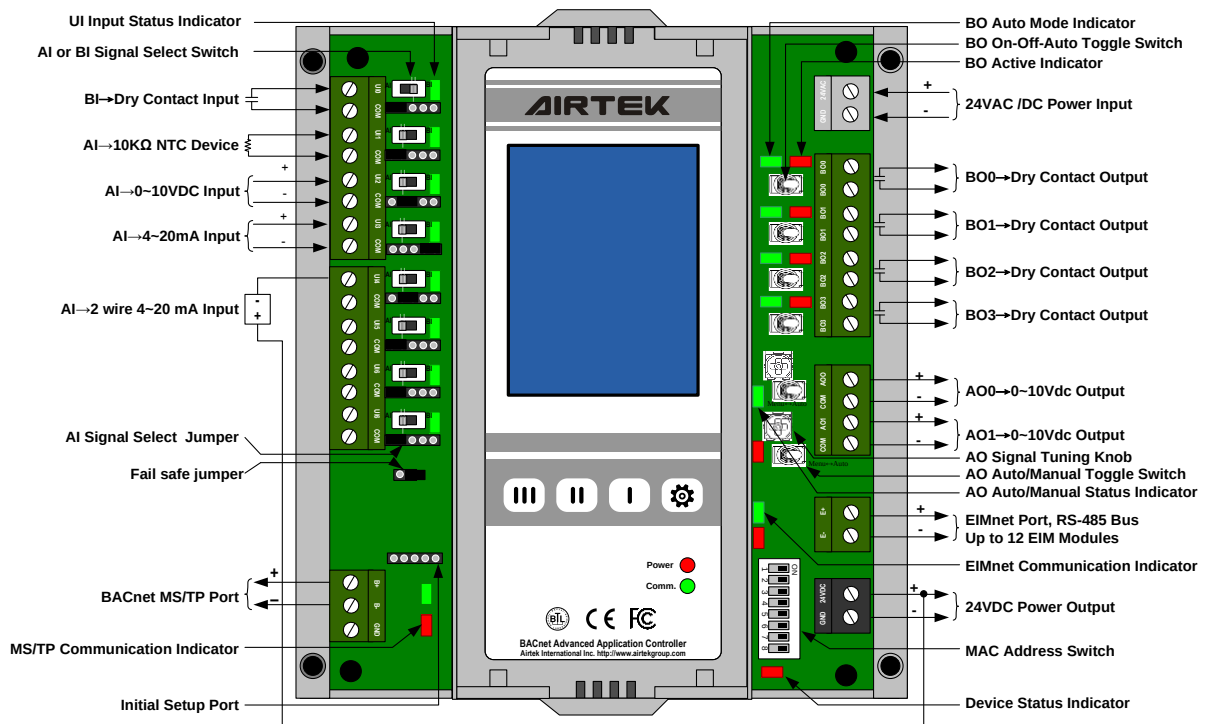
Environment : 0~50°C, 20~90%RH non-condanse

Certification : CE, RoHS

【Network Architecture】



【Wiring Diagram】



【Dimension】 Unit : mm

